

1810K US; TYCV 1810

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A compression apparatus for carrying out sequential compression vascular therapy on a limb of a patient, comprising:

a sleeve configured for disposal about a limb and boundary edges,

the sleeve including a first portion defining a first expandable chamber and a second portion defining a second expandable chamber and a third expandable chamber, the first, second and third expandable chambers being arranged with respect to each other lengthwise along the sleeve to move blood lengthwise of the limb.

the second portion including a connector for fluidly connecting a pressurized fluid source to the first expandable chamber, the second expandable chamber and the third expandable chamber whereby fluid can be delivered from said pressurized fluid source to said chambers to carry out said vascular therapy,

the first portion of the sleeve being completely removable from the second portion of the sleeve, and

perforations in the sleeve extending continuously across the sleeve from adjacent one boundary edge of the sleeve to adjacent an opposite boundary edge of the sleeve, said first and second portions of the sleeve being located on opposite sides of the perforation whereby the sleeve is completely may be torn along the perforations to completely remove the first portion of the sleeve from the second portion of the sleeve while leaving the second portion of the sleeve intact for delivery of fluid from said pressurized source to said second and third expandable chambers arranged with respect to each other lengthwise along the sleeve to permit sequential compression vascular therapy on said limb after said first portion of the sleeve is removed.

2. (Cancelled)

1810K US; TYCV 1810

3. (Original) A compression apparatus as recited in claim 1, wherein the first portion is configured for disposal about a first part of the limb and the second portion is configured for disposal about a second part of the limb.
4. (Original) A compression apparatus as recited in claim 1, wherein the second expandable chamber is disposed with the second portion for disposal about a second part of the limb and the third expandable chamber is disposed with the second portion for disposal about a third part of the limb.
5. (Original) A compression apparatus as recited in claim 1, wherein the first expandable chamber defines at least one sub-chamber.
6. (Original) A compression apparatus as recited in claim 5, wherein the second expandable chamber defines at least one sub-chamber.
7. (Original) A compression apparatus as recited in claim 6, wherein the third expandable chamber defines at least one sub-chamber.
8. (Original) A compression apparatus as recited in claim 1, wherein the sleeve defines at least one ventilation opening.
9. (Original) A compression apparatus as recited in claim 8, wherein the at least one opening includes openings formed in a surface of the expandable chambers.
10. (Original) A compression apparatus as recited in claim 8, wherein the at least one opening includes a slit disposed between the second expandable chamber and the third expandable chamber.
11. (Original) A compression apparatus as recited in claim 1, wherein the connector communicates with the chambers via a tubular pathway.

1810K US; TYCV 1810

12. (Original) A compression apparatus as recited in claim 11, wherein the tubular pathway of the first expandable chamber is removable from the connector.

13. (Original) A compression apparatus as recited in claim 1, wherein a pressurized fluid is delivered to the chambers for expansion thereof in a sequential time interval such that the first expandable chamber is expanded for 2.5 seconds, then the second expandable chamber is expanded for 3.0 seconds and then the third expandable chamber is expanded for 5.5 seconds.

14. (Currently amended) A compression apparatus as recited in claim 1, wherein the ~~chambers are simultaneously contracted~~ first and second portions of the sleeve are connected by a flexible section of reduced width having a knee opening therein, and wherein said perforations extend across the flexible section at a location below the knee opening.

15. (Currently amended) A compression apparatus for carrying out sequential compression vascular therapy on a patient, comprising:

a sleeve configured to wrap about a leg and having boundary edges,

the sleeve including a thigh portion defining a first inflatable chamber having sub-chambers, the sleeve further including a calf portion defining a second inflatable chamber having sub-chambers and an ankle portion defining a third inflatable chamber having sub-chambers, the first, second and third inflatable chambers being arranged with respect to each other lengthwise along the sleeve to move blood lengthwise of the limb

the calf portion of the sleeve including a valve connector that for fluidly connecting a pressurized fluid source to the chambers via a tubular pathway, the pressurized fluid is delivered from said pressurized fluid source to said chambers to carry out said vascular therapy,

said tubular pathway comprising first tubing extending from the valve connector and fluidly connecting to the first expandable chamber, second tubing extending from the valve connector and fluidly connecting to the second expandable chamber, and third

1810K US; TYCV 1810

tubing extending from the valve connector and fluidly connecting to the third expandable chamber,

the thigh portion of the sleeve being removably connected to the calf portion of the sleeve via perforations in the sleeve extending continuously across the sleeve from adjacent one boundary edge of the sleeve to adjacent an opposite boundary edge of the sleeve, said ~~first and second~~ thigh and calf portions of the sleeve being located on opposite sides of the perforations whereby the sleeve may be torn along the perforations to completely remove the thigh portion from the calf portion while leaving the calf and ankle portions of the sleeve intact for delivery of fluid from said pressurized source to said second and third inflatable chambers arranged with respect to each other lengthwise along the sleeve to permit sequential compression vascular therapy on said limb after said thigh portion of the sleeve is removed, and

the first tubing of the tubular pathway being removable from the valve connector when the thigh portion is removed from the calf portion, and the second tubing and third tubing remaining attached to the valve connector when the thigh portion is removed from the calf portion to permit sequential inflation of said second and third inflatable chambers after said thigh portion of the sleeve is removed.

16. (Original) A compression apparatus as recited in claim 15, wherein the sleeve further includes a ventilation slit disposed between the second inflatable chamber and the third inflatable chamber.

17. (Currently amended) A compression apparatus as recited in claim 15, wherein ~~a pressurized fluid is delivered to the chambers such that the first inflatable chamber is inflated for 2.5 seconds, then the second inflatable chamber is inflated for 3.0 seconds, then the third inflatable chamber is inflated for 5.5 seconds and then the chambers are deflated simultaneously~~ the thigh and calf portions of the sleeve are connected by a flexible section of reduced width having a knee opening therein, and wherein said perforations extend across the flexible section at a location below the knee opening.

1810K US; TYCV 1810

18. (Currently amended) A method of performing sequential compression on a limb of a body comprising the steps of:

providing a sleeve configured for disposal about the limb, the sleeve including a first portion defining a first inflatable chamber and a second portion defining a second inflatable chamber and a third inflatable chamber, the first, second and third inflatable chambers being arranged with respect to each other lengthwise along the sleeve, the second portion including a connector in fluid communication with a pressurized fluid source and the chambers thereby facilitating fluid communication between the pressurized fluid source and the chambers, the first portion being removable from the second portion;

disposing the sleeve about the limb;

delivering pressurized fluid to the first inflatable chamber, the second inflatable chamber and the third inflatable chamber to inflate the chambers in a sequence for moving blood lengthwise of the limb;

~~delivering pressurized fluid to the second inflatable chamber;~~

~~delivering pressurized fluid to the third inflatable chamber;~~

~~deflating the chambers; and~~

completely removing the first portion of the sleeve from the second portion of the sleeve by tearing the sleeve along perforations in the sleeve; and

delivering a pressurized fluid to inflate the second and third inflatable chambers in a sequence for moving blood lengthwise of the limb after the first portion of the sleeve is removed from the second portion of the sleeve.

19. (Original) A method of performing compression as recited in claim 18, wherein the steps of delivering are each performed for a duration of between 2.5 and 5.5 seconds.

20. (Original) A method of performing compression as recited in claim 18, wherein the step of removing includes disconnecting the first inflatable chamber from the connector.

21. (Cancelled)

1810K US; TYCV 1810

22. (Currently amended) A compression apparatus for carrying out sequential compression vascular therapy on a patient, comprising:

an expandable sleeve configured for disposal about a leg, said sleeve having boundary edges, the sleeve extending a length from below a knee of the leg to above the knee, wherein the sleeve is convertible from the length extending from below the knee to above the knee, to a length extending solely below the knee by tearing a an inflatable thigh portion of the sleeve completely away from a inflatable calf portion and ankle portions of the sleeve along perforations in the sleeve extending continuously across the sleeve from adjacent one boundary edge of the sleeve to adjacent an opposite boundary edge of the sleeve, the perforations being configured such that the calf and ankle portions of the sleeve remains intact after the thigh portion is torn away to permit sequential inflation of the calf and ankle portions whereby sequential compression vascular therapy on said patient can be carried out after said thigh portion of the sleeve is removed.

23. (Cancelled)

24. (Currently amended) A compression apparatus as recited in claim 22, ~~further comprising perforations in the sleeve along which the sleeve may be torn to remove the thigh portion of the sleeve from the calf portion of the sleeve~~ wherein the thigh and calf portions of the sleeve are connected by a flexible section of reduced width having a knee opening therein, and wherein said perforations extend across the flexible section at a location below the knee opening.

25. (Currently amended) A method of performing sequential compression on a limb of a body comprising the steps of:

providing an expandable sleeve configured for disposal about a leg;

disposing the sleeve about the limb such that the sleeve extends a length from below a knee of the leg to above the knee;

sequentially delivering pressurized fluid to inflatable ankle, calf and thigh portions of the sleeve to move blood lengthwise of the limb of the patient;

1810K US; TYCV 1810

deflating the ankle, calf and thigh portions of the sleeve; and

converting the sleeve from the length extending from below the knee to above the knee, to a length extending solely below the knee by tearing the sleeve along perforations in the sleeve to completely remove a the thigh portion of the sleeve extending above the knee, the perforations being configured such that the calf and ankle portions of the sleeve remains intact after the thigh portion is torn away to permit sequential inflation of the calf and ankle portions after said thigh portion of the sleeve is removed.

26. (Currently amended) A method of performing compression as recited in claim 25, wherein ~~the step of disposing the sleeve about the limb such that the sleeve extends a length from below a knee of the leg to above the knee includes a first portion of the sleeve being disposed about a thigh of the leg~~ thigh and calf portions of the sleeve are connected by a flexible section of reduced width having a knee opening therein, and wherein said perforations extend across the flexible section at a location below the knee opening.

27. (Cancelled)

28. (Currently amended) A compression apparatus as recited in claim 1, further comprising

first tubing extending from the connector and fluidly connecting to the first expandable chamber,

second tubing extending from the connector and fluidly connecting to the second expandable chamber,

third tubing extending from the connector and fluidly connecting to the third expandable chamber,

1810K US; TYCV 1810

said first tubing comprising a quick disconnect port permitting easy removal of the first tubing from a downstream side of the connector when the first portion of the sleeve is removed from the second portion of the sleeve, said second tubing and said third tubing remaining attached to the connector when the first portion of the sleeve is removed from the second portion of the sleeve.

29. (Currently amended) A compression apparatus adapted for inflation and deflation by a pressurized fluid source for carrying out sequential compression vascular therapy on a patient, comprising:

a sleeve configured for disposal about a limb and having boundary edges,

the sleeve including a first portion defining a first expandable chamber and a second portion defining a second expandable chamber and a third expandable chamber, the first second and third expandable chambers being arranged with respect to each other lengthwise along the sleeve to move blood lengthwise of the limb.

the second portion including a connector for fluidly connecting said pressurized fluid source to the first expandable chamber, the second expandable chamber and the third expandable chamber, the fluid is being delivered from said pressurized fluid source to said chambers to carry out said vascular therapy,

perforations in the sleeve extending continuously across the sleeve from adjacent one boundary edge of the sleeve to adjacent an opposite boundary edge of the sleeve, said first and second portions of the sleeve being located on opposite sides of the perforations, the sleeve is torn along the perforations to completely remove the first portion of the sleeve from the second portion of the sleeve while leaving the second portion of the sleeve intact for delivery of fluid from said pressurized source to said second and third expandable chambers arranged with respect to each other lengthwise along the sleeve to permit sequential compression vascular therapy on said limb after said first portion of the sleeve is removed.

1810K US; TYCV 1810

first tubing extending from the connector and fluidly connecting to the first expandable chamber,

second tubing extending from the connector and fluidly connecting to the second expandable chamber,

third tubing extending from the connector and fluidly connecting to the third expandable chamber,

said first tubing comprising a quick disconnect port communicating with a fluid port in said connector permitting easy removal of the first tubing from a downstream side of the connector when the first portion of the sleeve is completely removed from the second portion of the sleeve, said second tubing and said third tubing remaining attached to the connector when the first portion of the sleeve is removed from the second portion of the sleeve, and

said connector comprising a valve for partially closing said fluid port when the first tubing is removed from said connector, the fluid continues to flow from the fluid port and said inflation and deflation by said pressurized fluid source is able to continue without interruption.

30. (Previously presented) A compression apparatus as recited in claim 29 wherein said valve is movable when the first tubing is removed from the connector to reduce fluid flow from the pressurized fluid source through said fluid port to a level approximating flow to said first expandable chamber prior to removal of the first portion of the sleeve from the second portion of the sleeve.

31. (New) A compression device as set forth in claim 29, wherein the first and second portions of the sleeve are connected by a flexible section of reduced width having

1810K US; TYCV 1810

a knee opening therein, and wherein said perforations extend across the flexible section at a location below the knee opening.